

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/11/00
Date Received: 11/22/00
Project: Metro Self Monitor, PO# M64857
Date Extracted: 12/07/00
Date Analyzed: 12/08/00

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M64857 011154-01	1.5	1.9	2.0	0.09 fb
Method Blank	<0.05	<0.05	<0.05	0.07 lc

fb - The analyte indicated was found in the blank. Its presence may be due to laboratory contamination.

lc - The presence of the compound indicated is likely due to laboratory contamination.

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Date of Report: 12/11/00

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Project: Metro Self Monitor, PO# M64857

**QUALITY ASSURANCE RESULTS
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Laboratory Code: 011182-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.86	0.93	8	0-20
Copper	mg/L (ppm)	1.4	1.3	7	0-20
Nickel	mg/L (ppm)	1.2	1.3	8	0-20
Zinc	mg/L (ppm)	0.19	0.14	a	0-20

Laboratory Code: 011182-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	50	0.86	94	97	80-120	3
Copper	mg/L (ppm)	50	1.4	89	95	80-120	7
Nickel	mg/L (ppm)	100	1.2	92	91	80-120	1
Zinc	mg/L (ppm)	50	0.19	96	88	80-120	9

Laboratory Code: Laboratory Control Sample

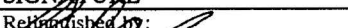
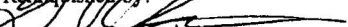
Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	50	101	104	80-120	3
Copper	mg/L (ppm)	50	107	107	80-120	0
Nickel	mg/L (ppm)	100	100	103	80-120	3
Zinc	mg/L (ppm)	50	107	107	80-120	0

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

KT 11.22.00 A12

011154

Date 11-22-00

SIGNATURE	PRINT NAME	COMPANY	Date	Time
Relinquished by: 	Gerald A. Thompson	ACU	11/27/00	1:13pm
Received by: 	Charlene Jensen	FBI	11-22-00	1:13pm
Relinquished by:				
Received by:				

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Jensen, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
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December 11, 2000

DUPLICATE COPY

INVOICE #00ACU1211-1

Accounts Payable
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M64857 - Results of testing requested by
Gerry Thompson for material submitted on November 22, 2000.

1 sample analyzed for Total Chromium, Copper, Nickel
and Zinc by Method 6010 @ \$80 per sample

\$ 80.00

Amount Due

\$ 80.00

FEDERAL TAX ID (b) (6)

FRIEDMAN & BRUYA, INC.

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Seattle, WA 98119-2029
TEL: (206) 285-8282
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December 11, 2000

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

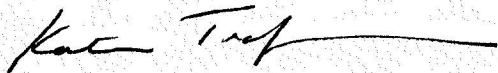
Dear Mr. Thompson:

Included are the results from the testing of material submitted on November 22, 2000 from your Metro Self Monitor, PO# M64857 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Kate Trafton
Project Manager

Enclosures
ACU1211R.DOC